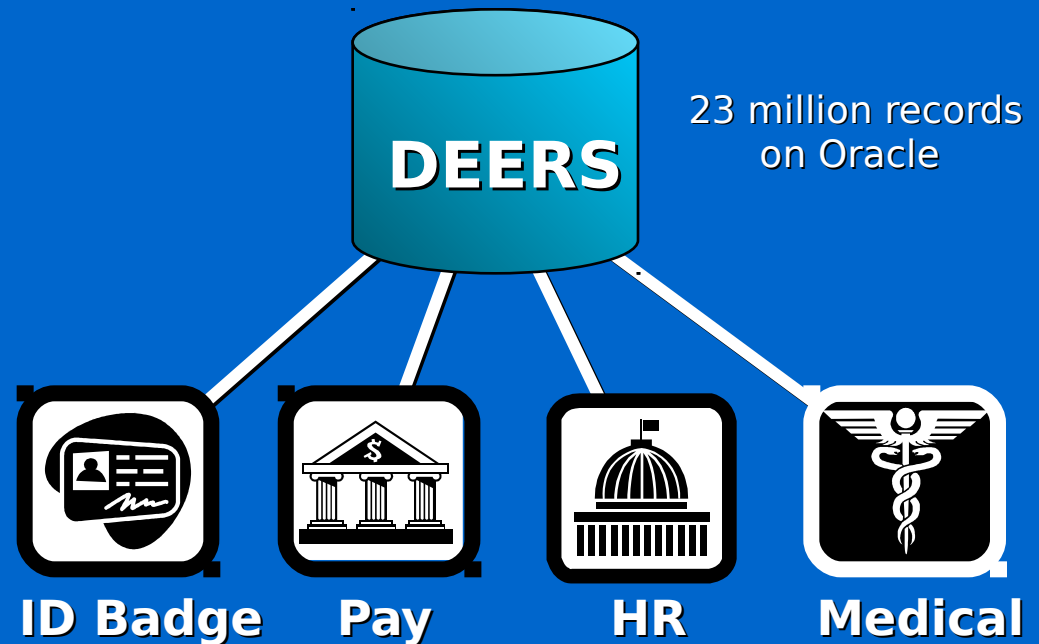


# CAC

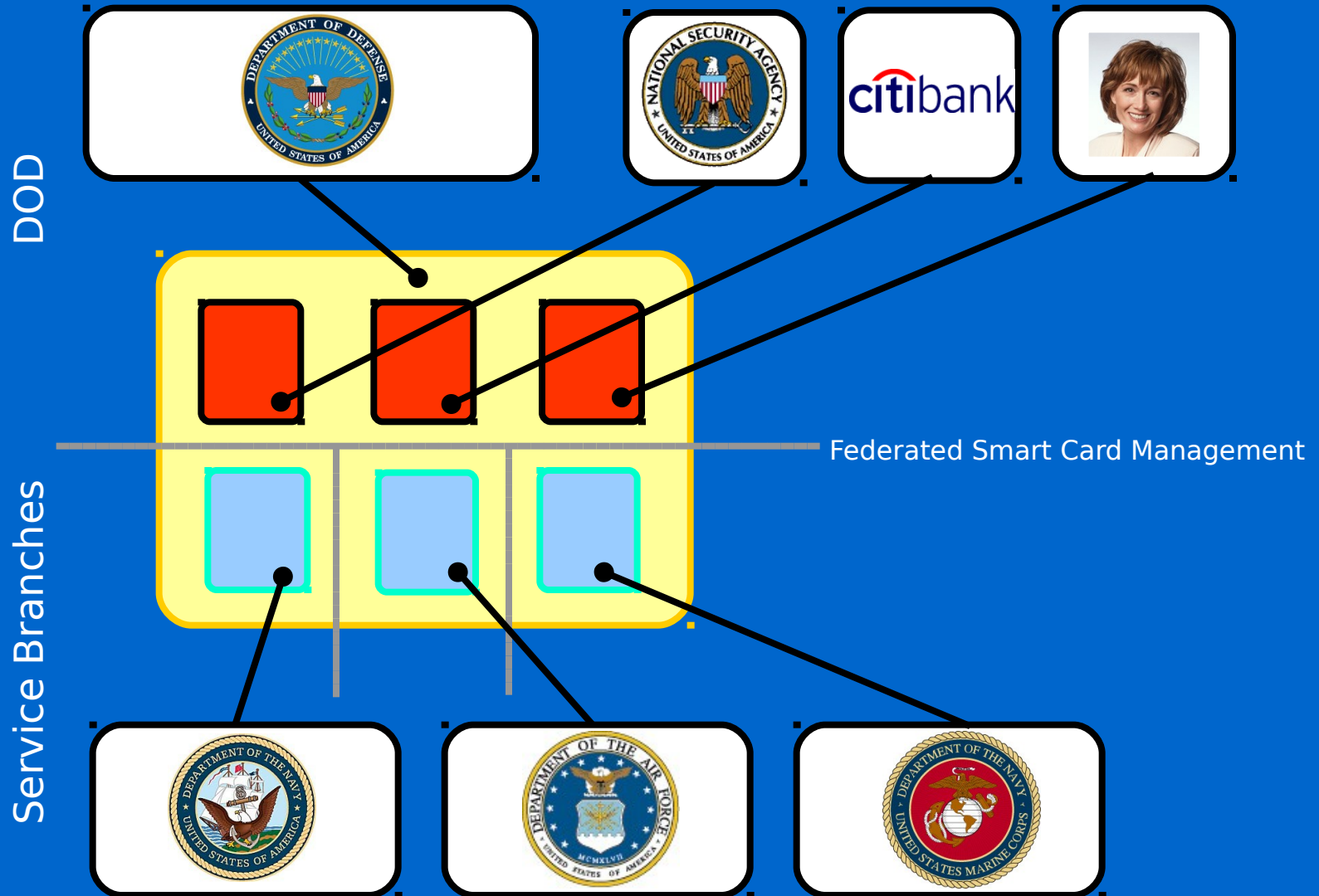
The Common Access Card  
DMDC

Feb 2001

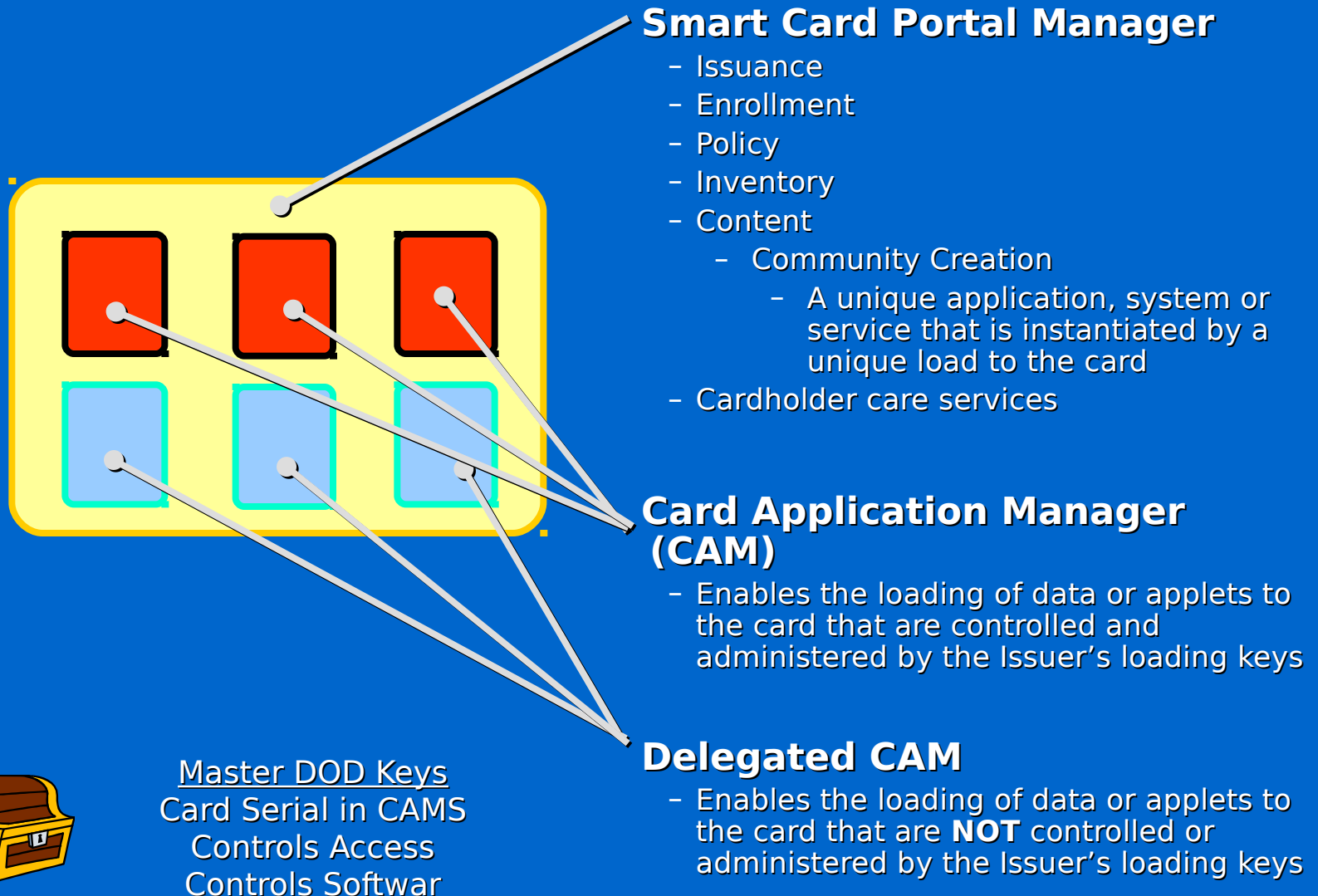
# Defense Manpower Data Center (DMDC)



# Department of Defense Example



# Card Managers



# Plans and Assets

- The Plan

- Issue 4.1 Million ID Cards by the end of 2002 to:
  - Active Duty Military
  - DoD Civilians
  - Selected Reserve
  - Contractors within the Firewall
- Over 2500 RAPIDS ID Stations to be upgraded (over 14 months)

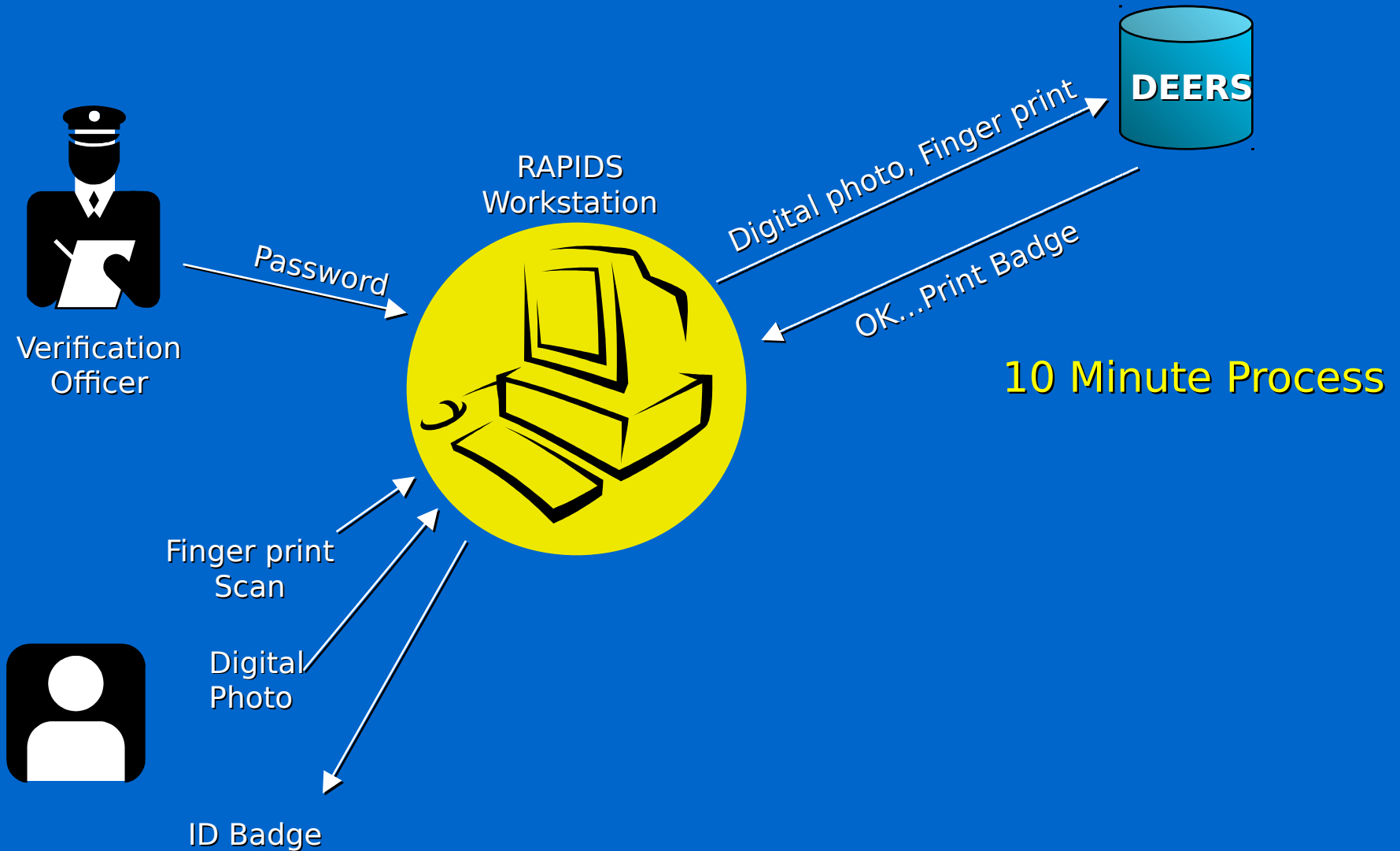
- Assets

- Test cards (Functional CAC without DoD Master Keys)
  - Request from Butlermp@osd.pentagon.mil  
(phone/address/sponsor/ and short description of project).
- Developers Documentation can be forwarded
- Integration with the GSA Smartcard Contract ([www.gsa.gov](http://www.gsa.gov))

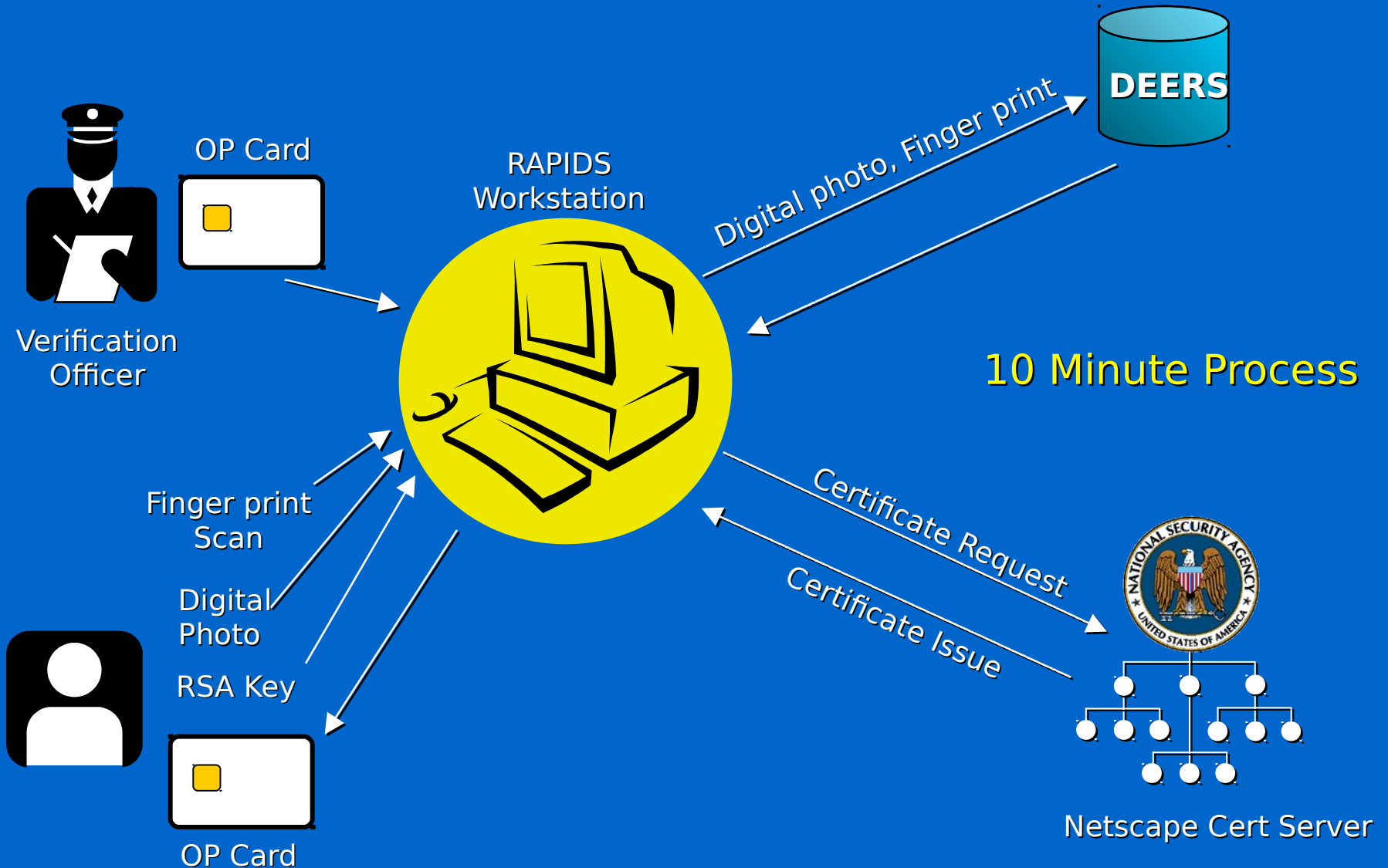
- Contacts

- Office (703-696-7396) Director Mary Dixon, Contracts / SCSCG-Terry Schwarzhoff, Policy- Sheila Ford, PKI- Deb Hughes, and Mike Butler.

# RAPIDS - The Last 17 Years



# RAPIDS - Now



# Deploying 4.4 million Cards

## The GSA Common Access Card (CAC) Program



- **PIN Mgt Applet**
- **Generic Container Applet**
  - **Employee ID**
  - **Benefits**
  - **External Benefits**
  - **Healthcare**
  - **Utility**
- **PKI Applet**
  - **Three Key Pairs/Certificates**
- **Space for Departmental Applet**



# Dynamic = Management

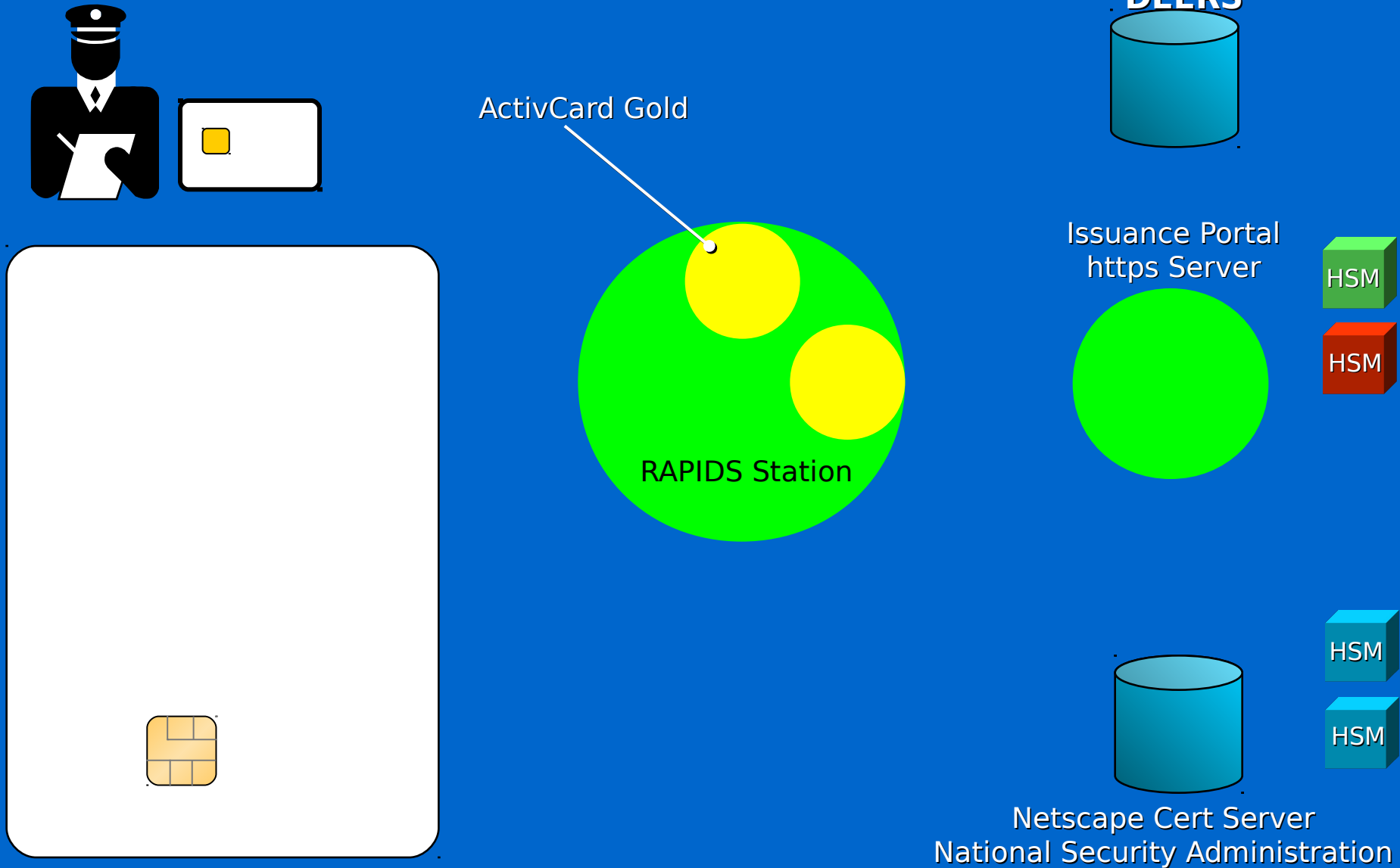
## Pre & Post Issuance

- Applet Load, Delete, Update
- Data Load, Delete, Update

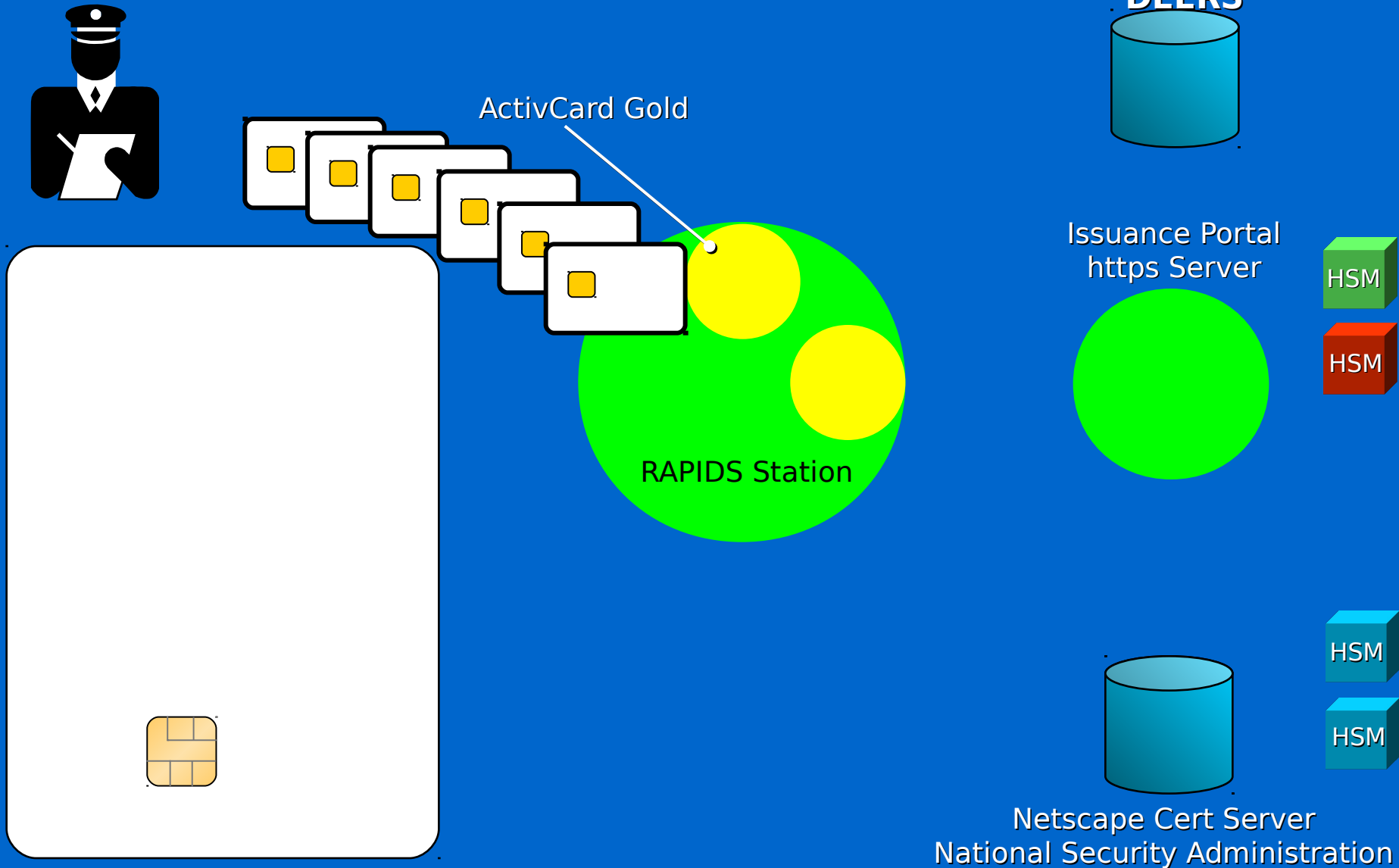
## Flexible Enrollment Methods

- Online, Bulk, Branch

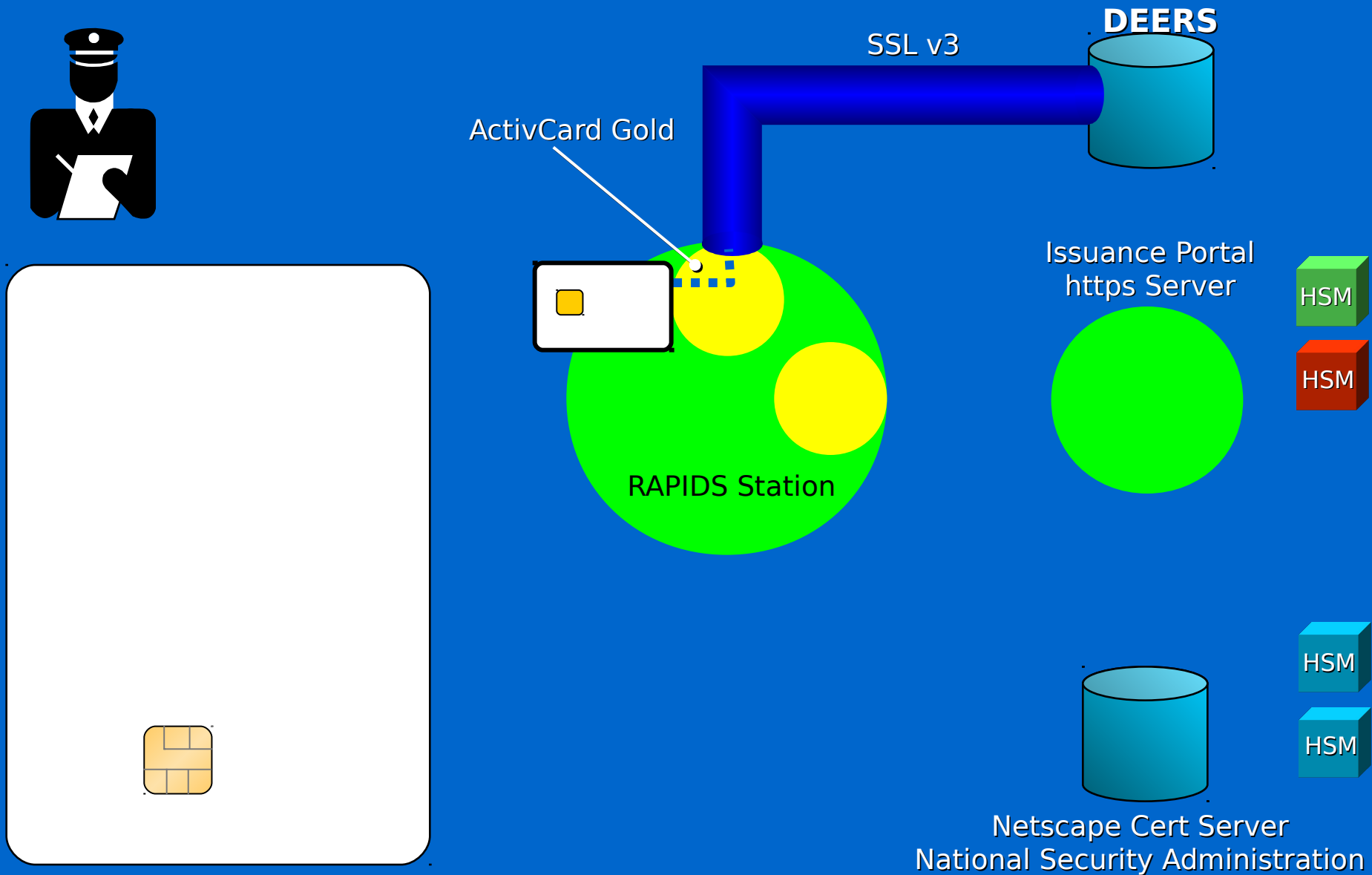
# Distributed Issuing



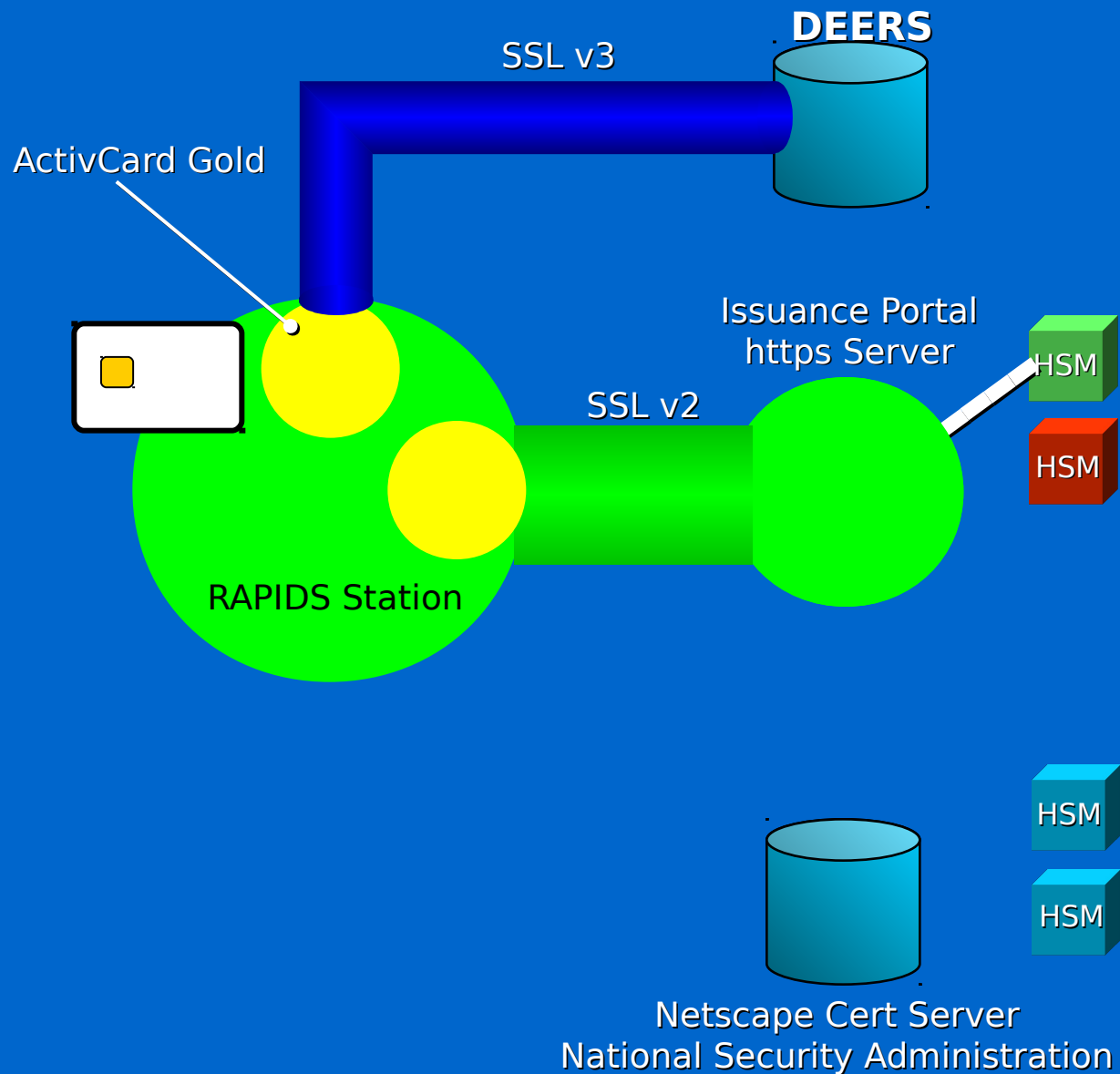
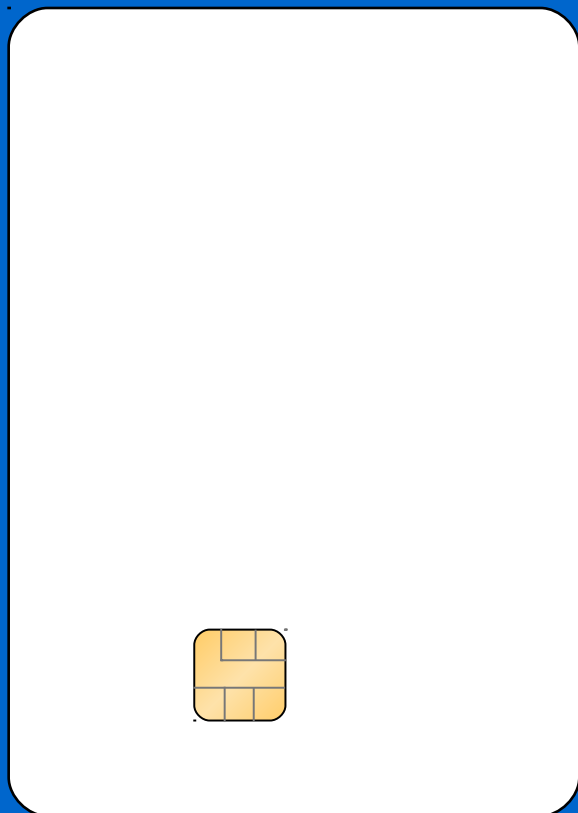
# Verification Officer Authentication to DEERS



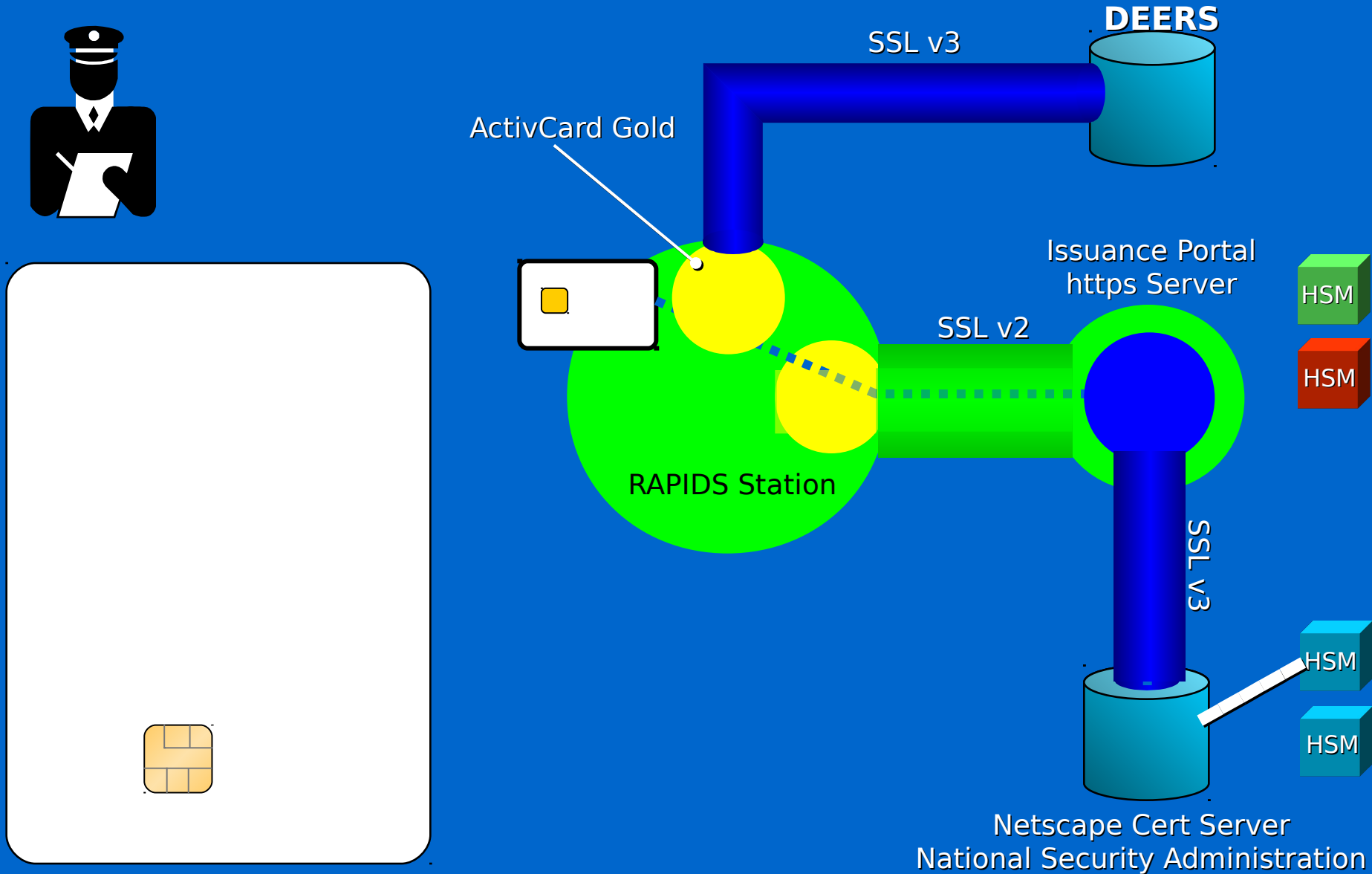
# SSL v3 Session to DEERS



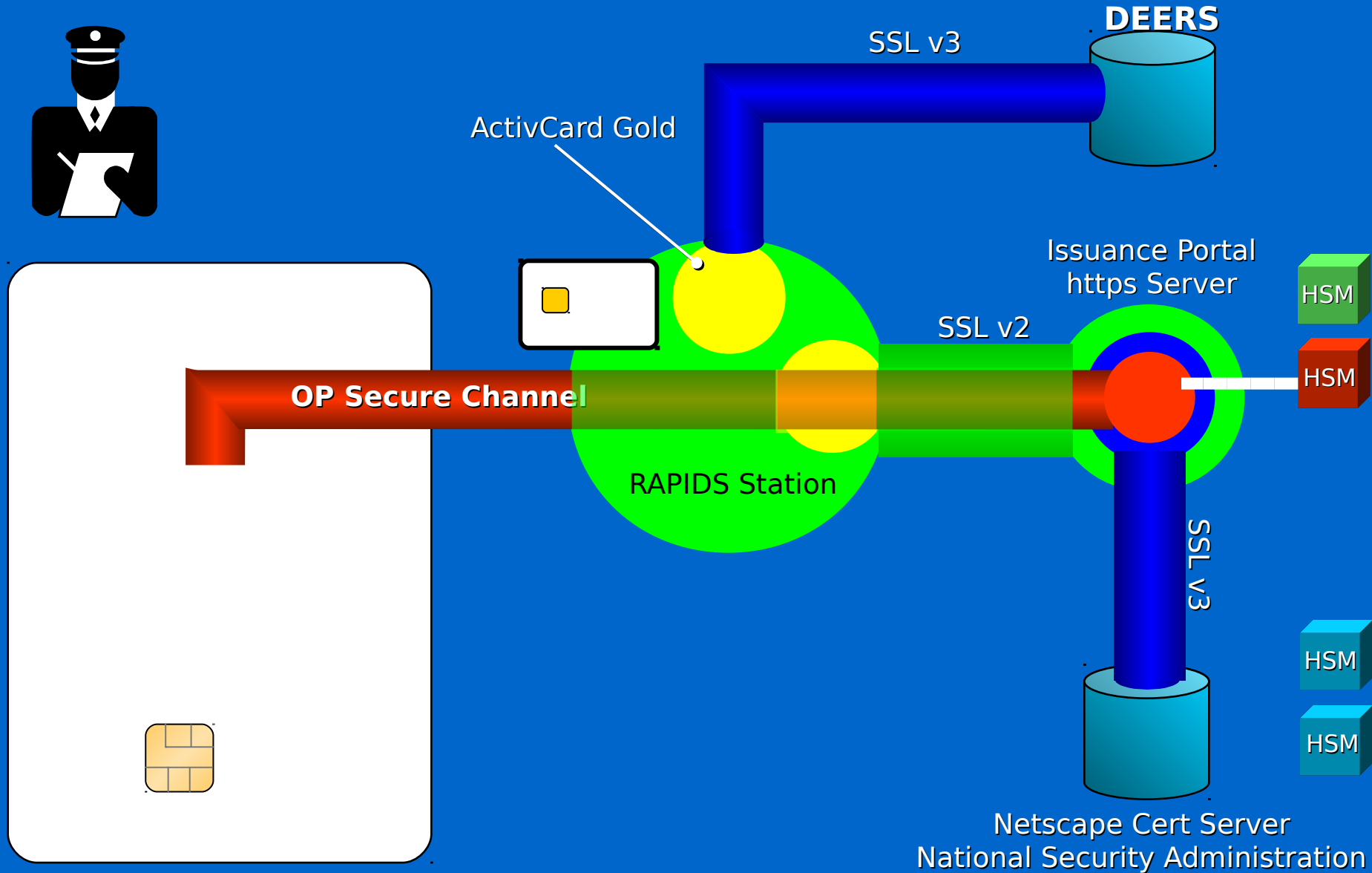
# SSL v2 Session with Issuance Portal



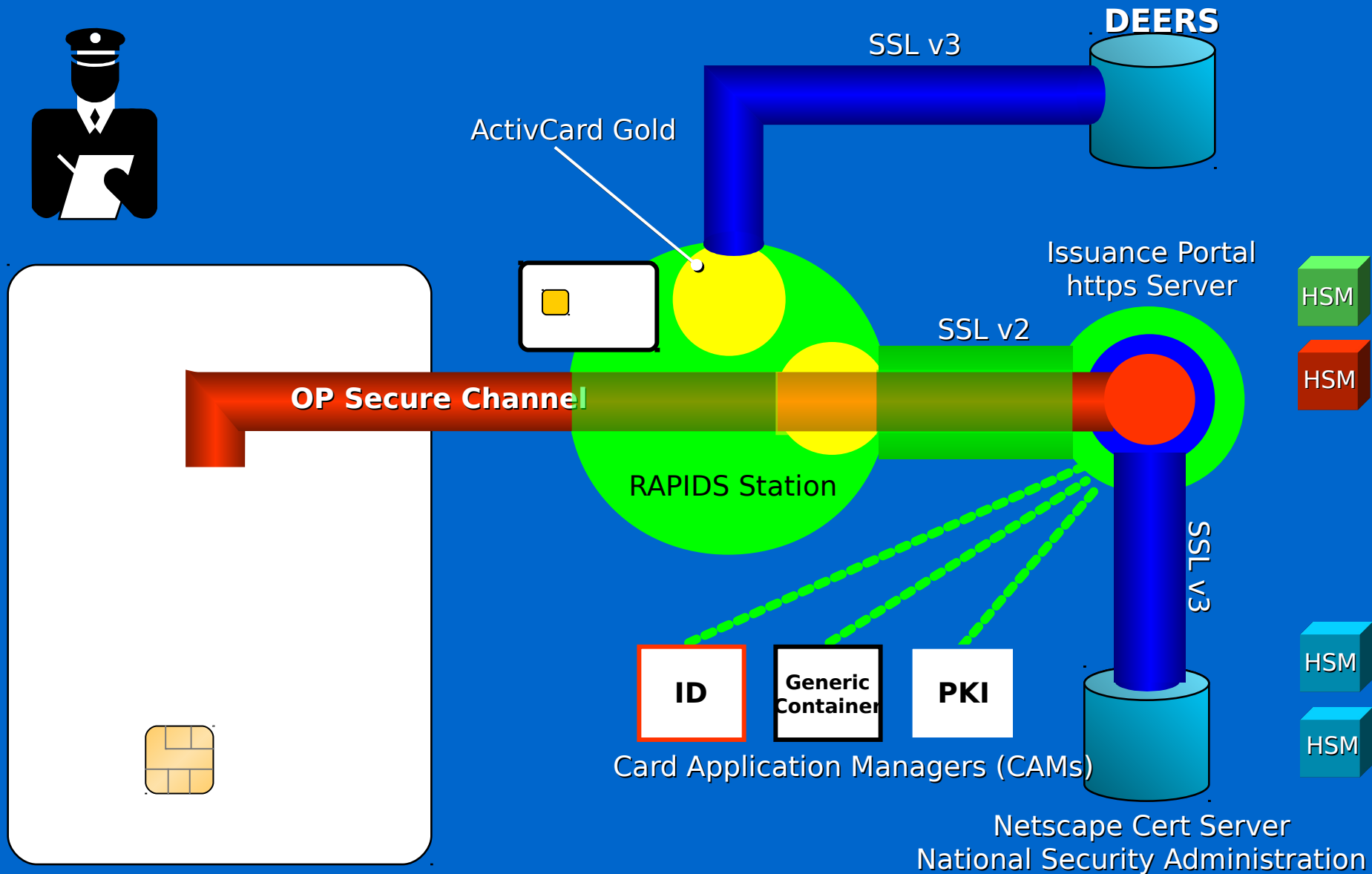
# VO Authenticates to NSA



# OP Secure Channel to New Card

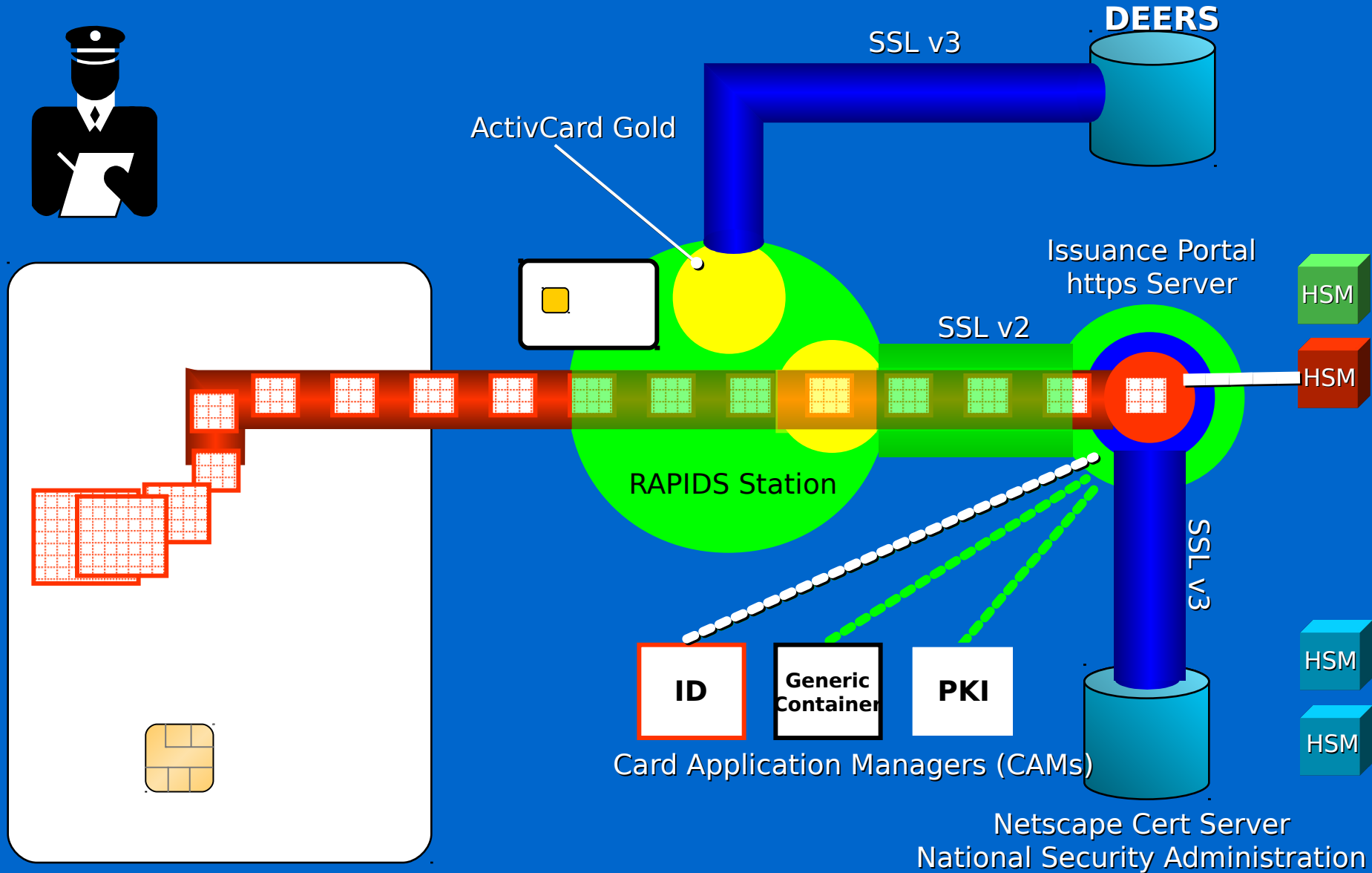


# Card Application Managers (CAMs)

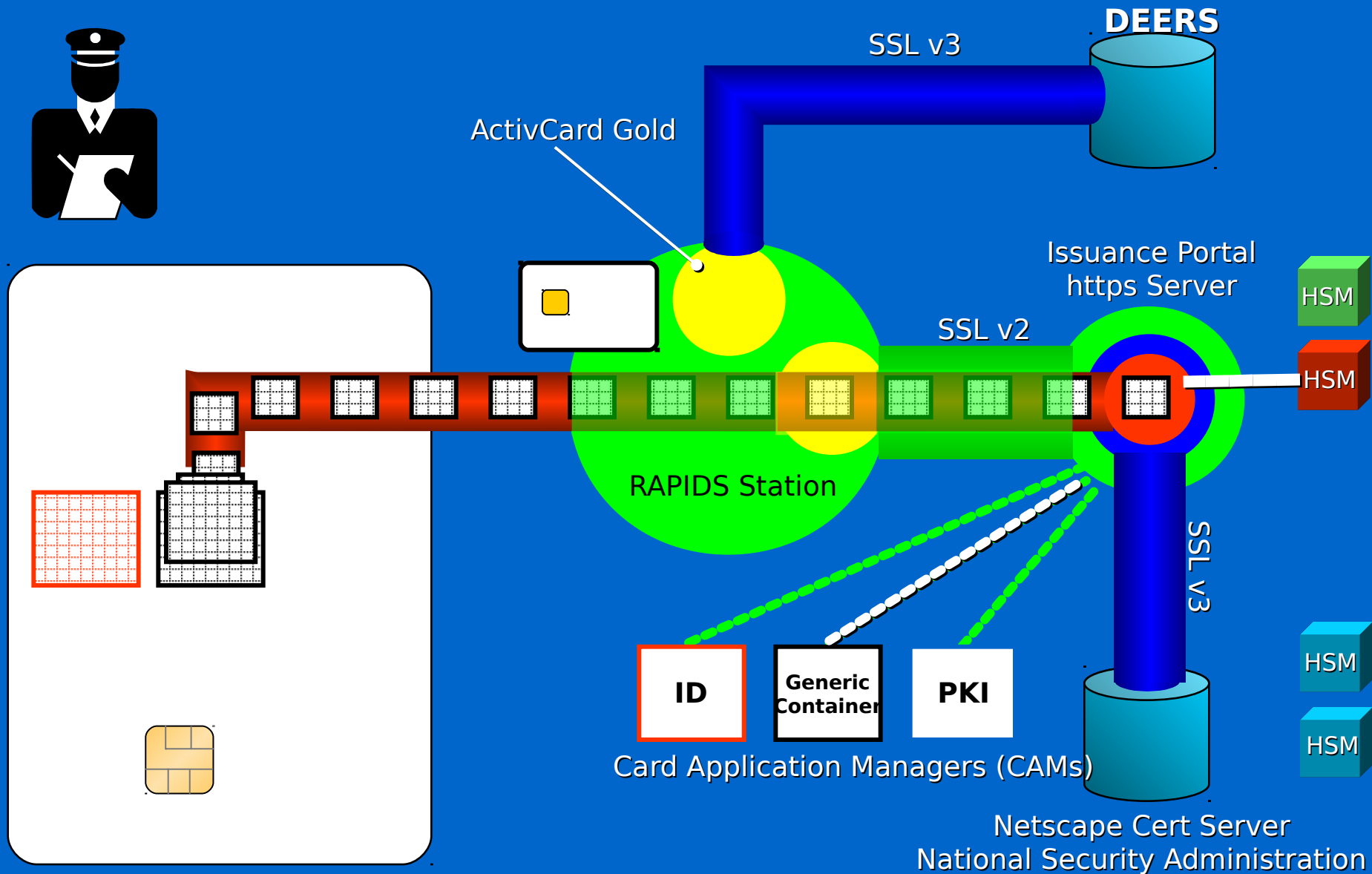




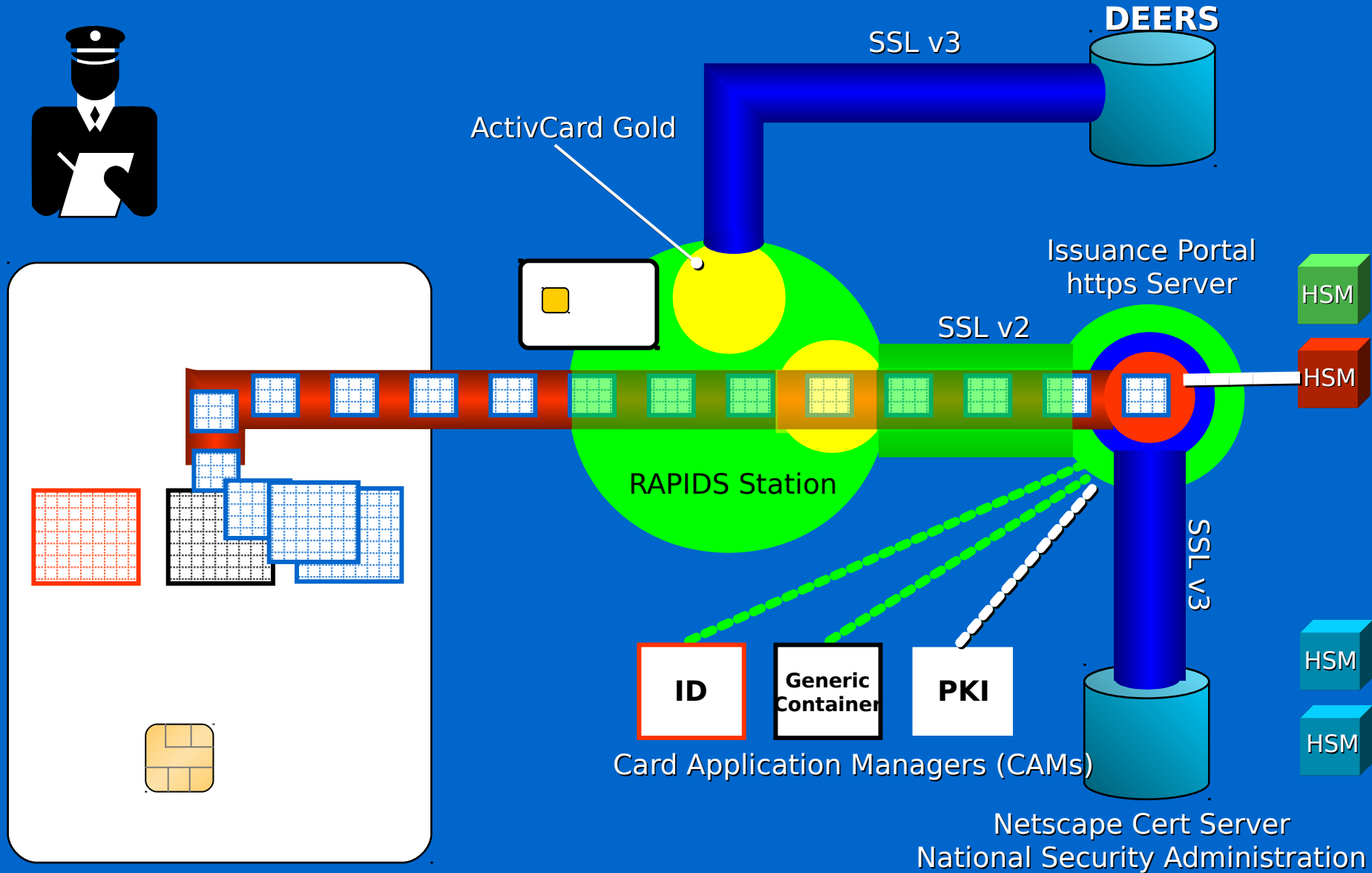
# Create Card Applets - ID



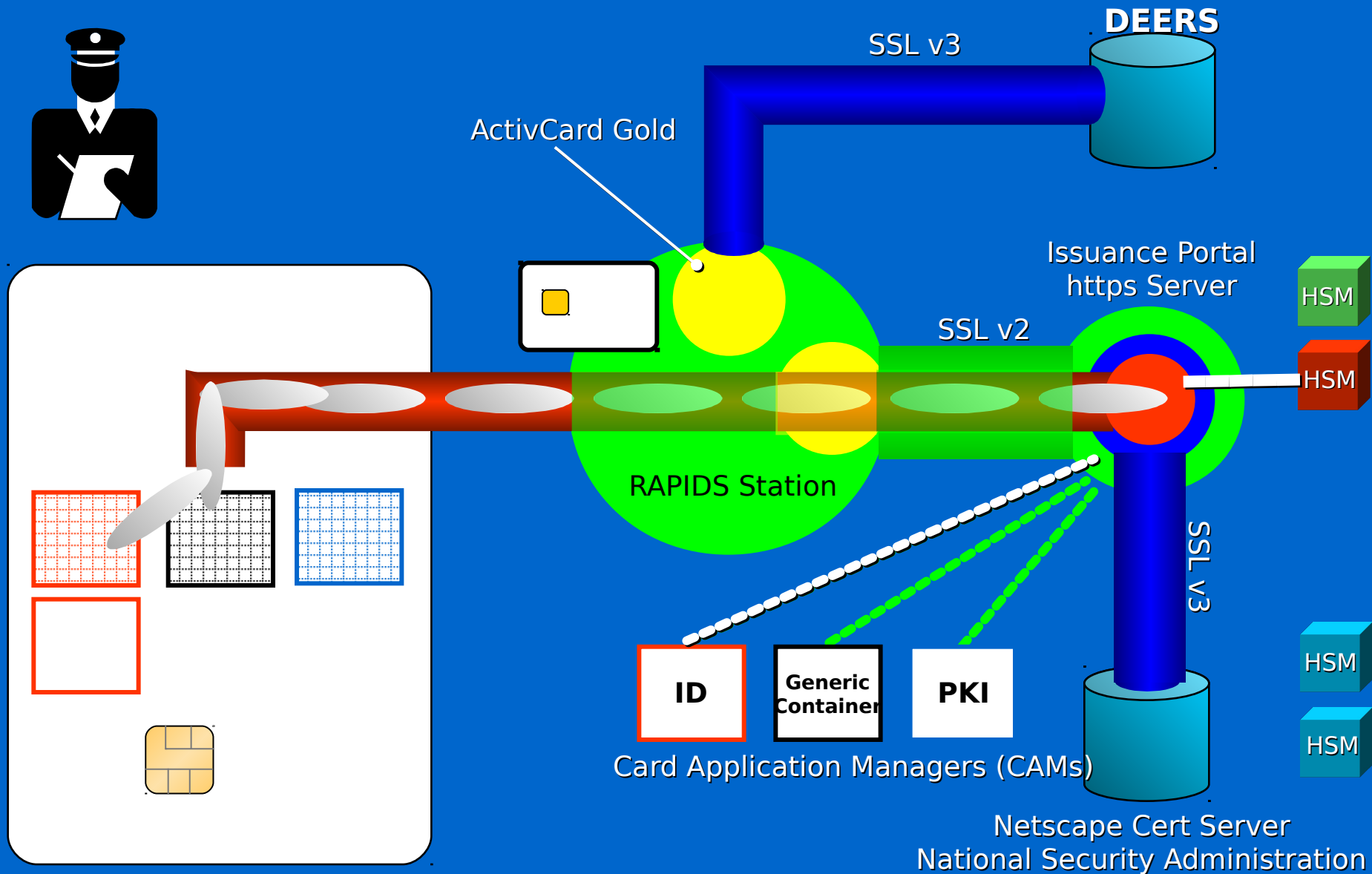
# Create Card Applets - Generic Containers



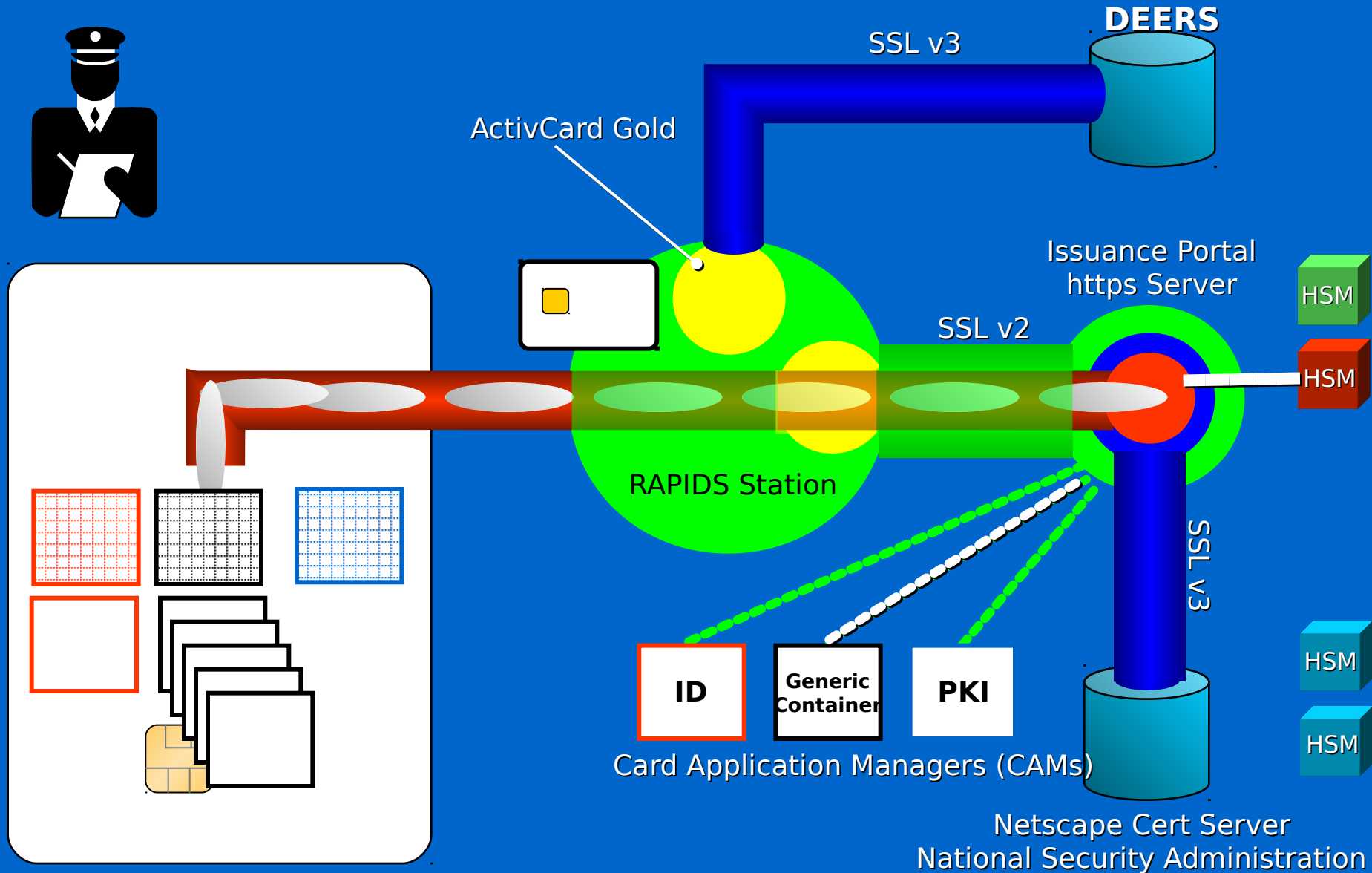
# Create Card Applets - PKI



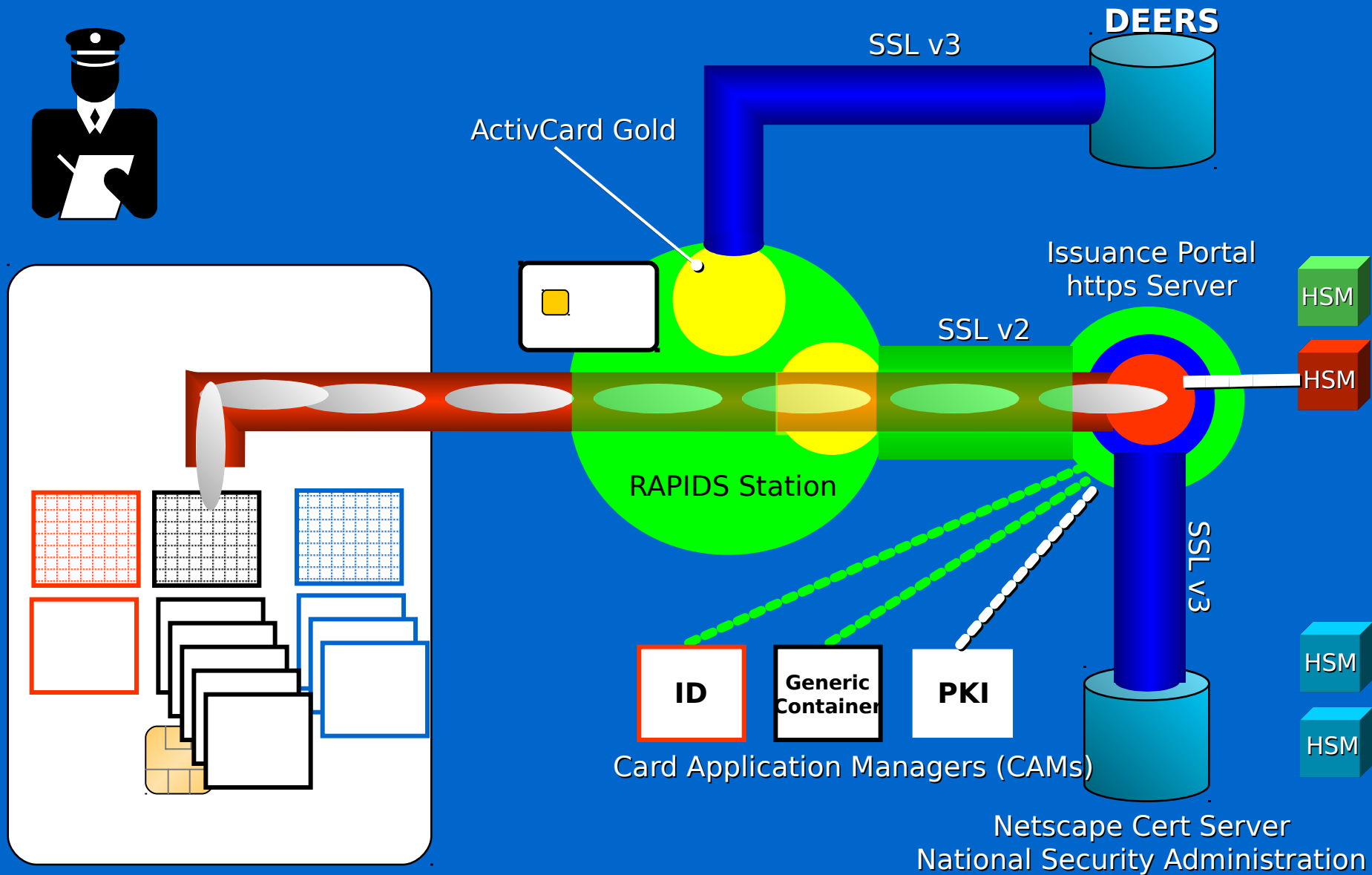
# Instantiate ID Applet

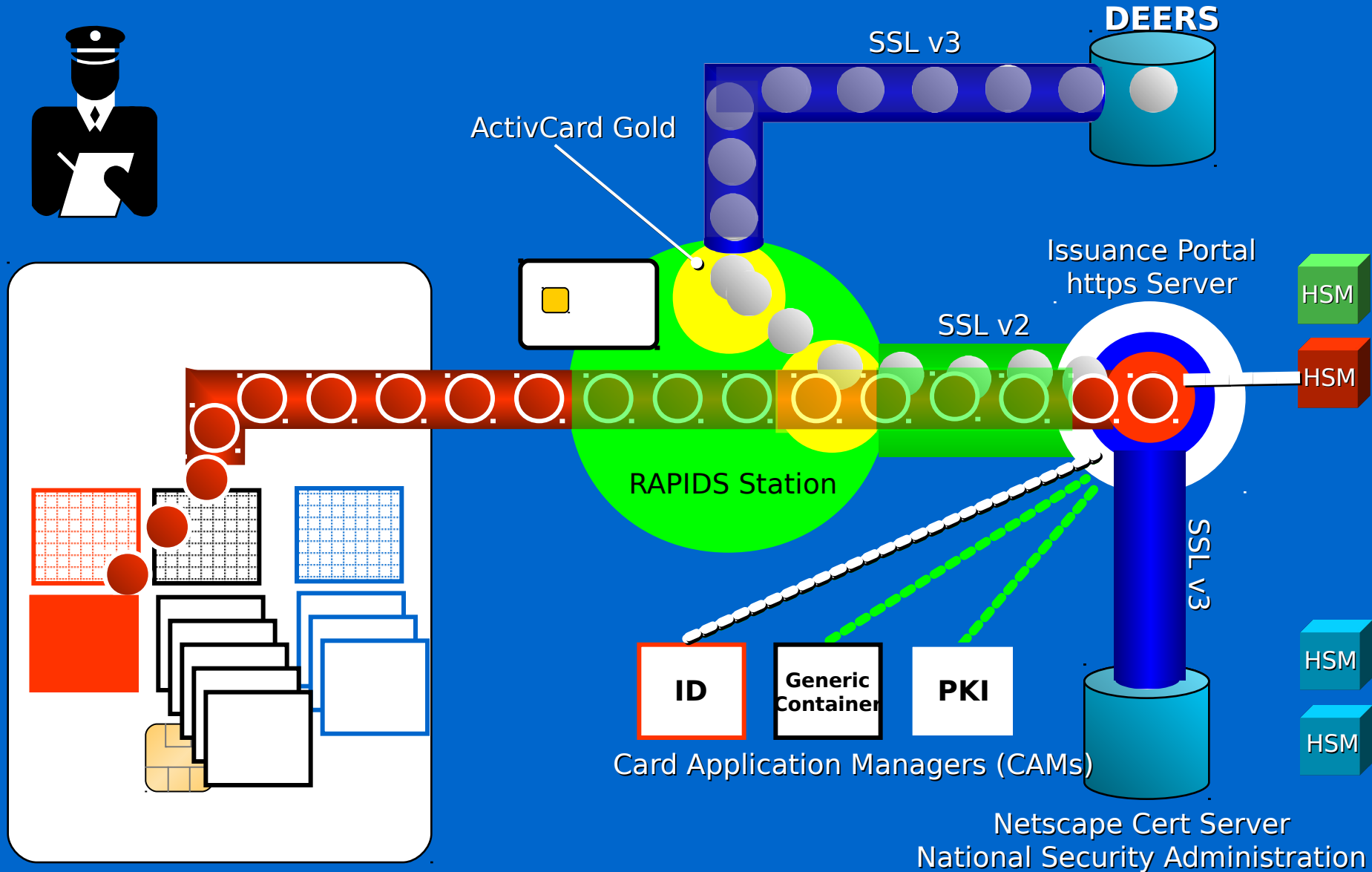


# Instantiate Generic Container Applet



# Instantiate PKI Applet

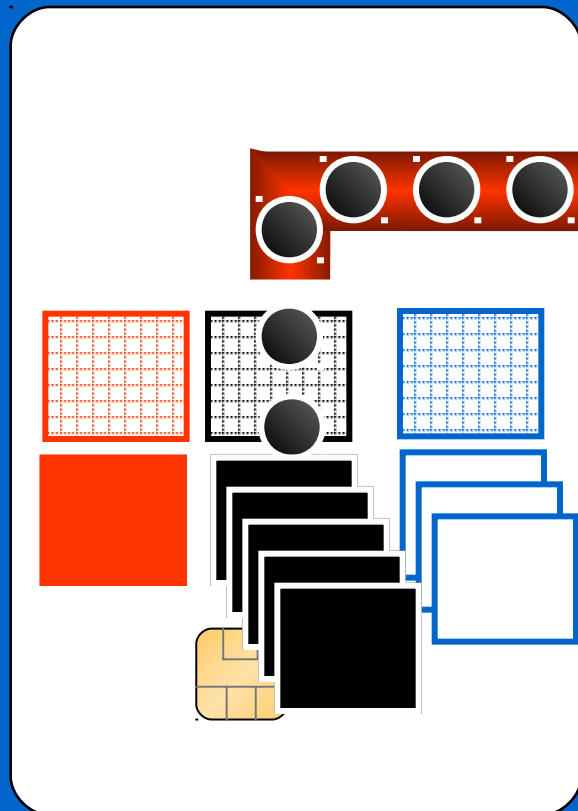




The diagram illustrates the RAPIDS Station architecture, which is a secure environment for processing sensitive information. The central component is the **RAPIDS Station**, represented by a green circle. It is connected to various external systems and components:

- DEERS** (Data Entry and Reporting System) is connected to the RAPIDS Station via an **SSL v3** connection.
- The **Issuance Portal https Server** is connected to the RAPIDS Station via an **SSL v2** connection.
- The **Card Application Managers (CAMs)** are connected to the RAPIDS Station via **SSL v3** connections. The CAMs include:
  - ID** (Identification)
  - Generic Container**
  - PKI** (Public Key Infrastructure)
- The **Netscape Cert Server** and **National Security Administration** are connected to the CAMs via **SSL v3** connections.
- The **ActivCard Gold** is shown as a card being processed by the RAPIDS Station.
- The **HSM** (Hardware Security Module) is shown as a component connected to the Issuance Portal https Server.

The RAPIDS Station is also shown with a **Card Application Manager (CAM)** interface, which includes a **Card Application Manager (CAM)** icon and a **Card Application Manager (CAM)** label.



# ActivCard Gold

# SSL v3

# DEERS

# RAPIDS Station

## SSL v2

## Issuance Portal https Server

HSM

## HSM

# SSL v3

HSM

HSM

ID

## Generic Container

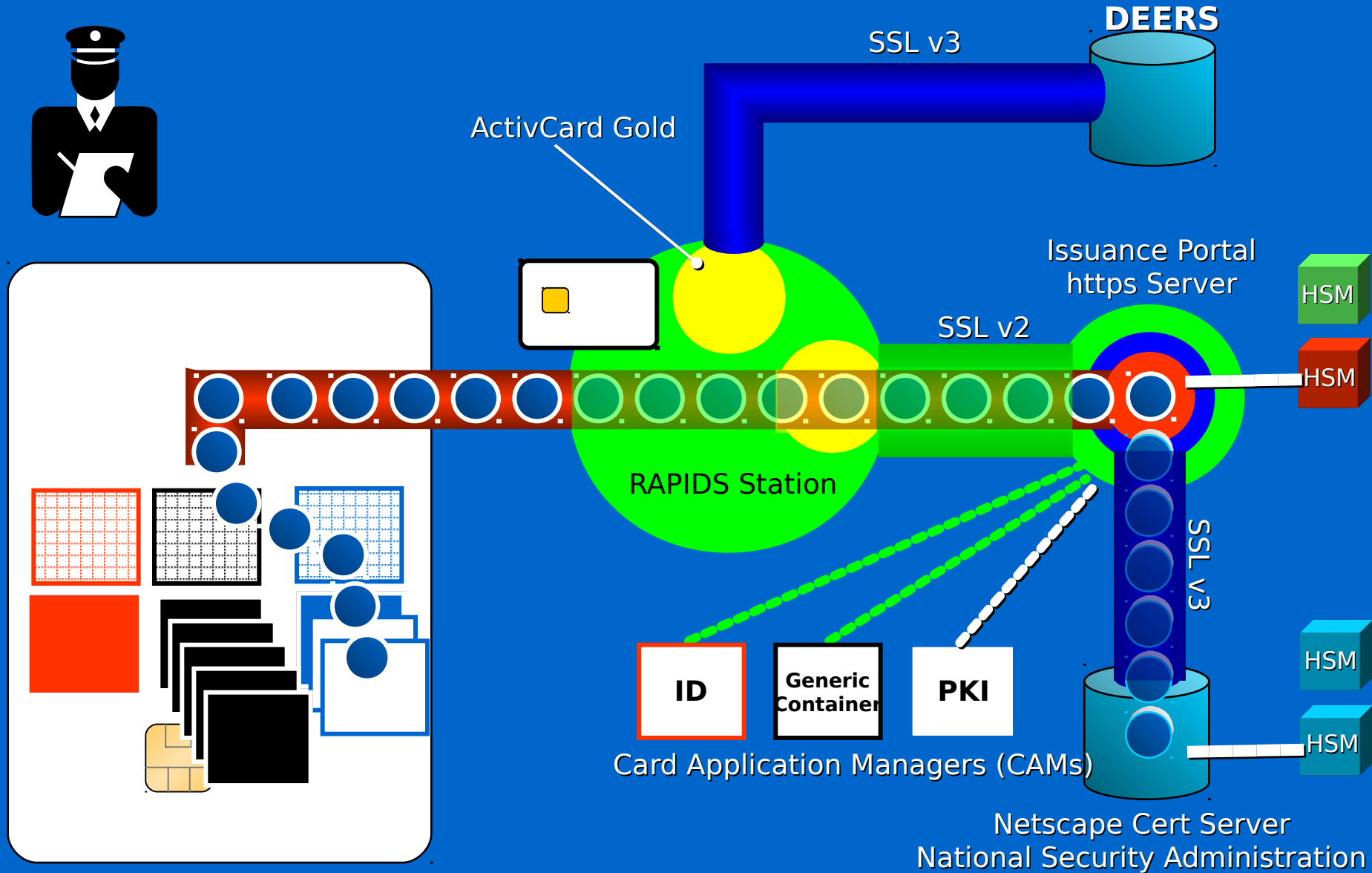
# PKI

## Card Application Managers (CAMs)

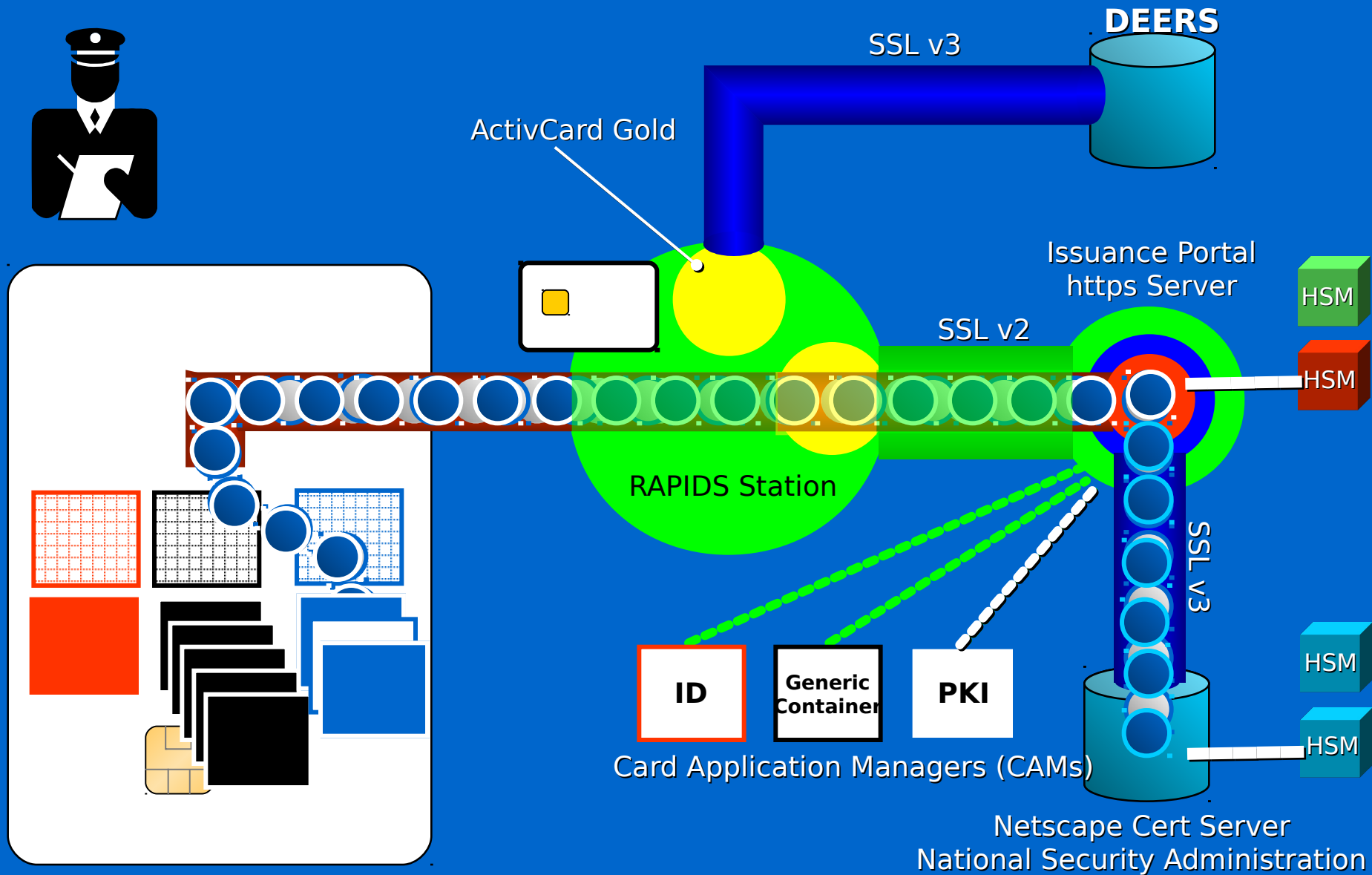
Netscape Cert Server  
National Security Administration



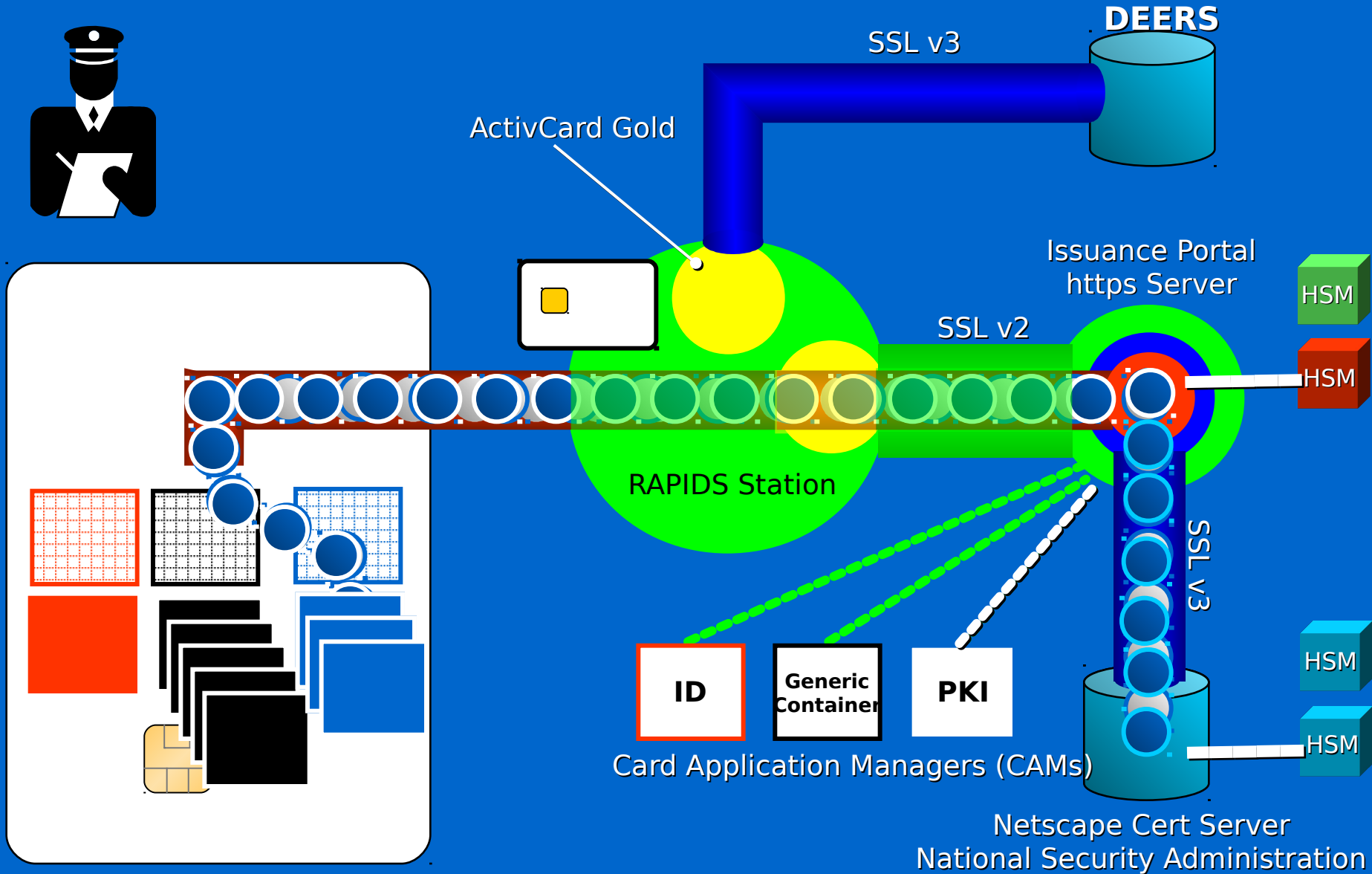
# Encryption Key



# First Signature Key



# Second Signature Key



# Print Card



ActivCard Gold

**Active Duty**



**U.S. Navy**



**Johnson, Jane Marie**

Social Security Number **742-76-0064** Date of Birth **1969JAN09**

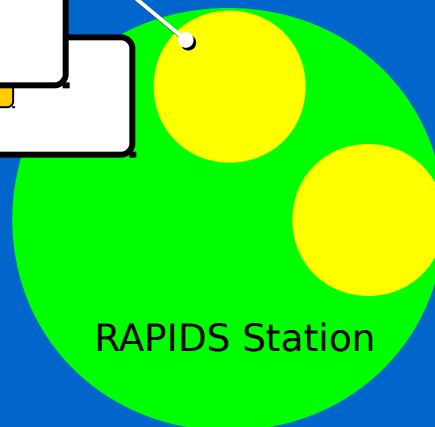
Issue Date **1999SEP03** Expiration Date **2003SEP01**

Pay Grade **LTCOL** Geneva Conv. Cat. **VI**

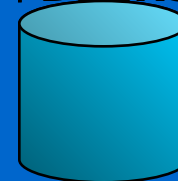
Rank **A1**



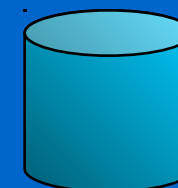
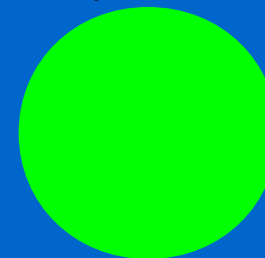
Geneva Conventions Identification Card



**DEERS**



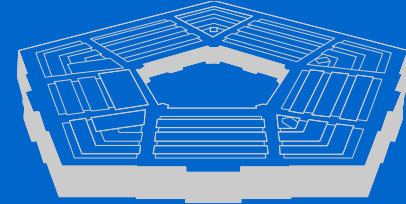
Issuance Portal  
https Server



Netscape Cert Server  
National Security Administration

# Usage

- New Process Applications
- Email
- Single Sign-On
- Room for new applets post-issuance





**Active Duty**



**U.S. Navy**

**Johnson, Jane Marie**

Social Security Number **742-76-0064** Date of Birth **1969JAN09**

Issue Date **1999SEP03** Expiration Date **2003SEP01**

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Rank **A1**



Geneva Conventions Identification Card

